



Course Syllabus

1	Course title	Drug- Nutrient Interactions
2	Course number	0603763
3	Credit hours (theory, practical)	3 (3, 0)
	Contact hours (theory, practical)	3 (3, 0)
4	Prerequisites/corequisites	-
5	Program title	MSc. In Human Nutrition and Dietetics
6	Program code	036
7	Awarding institution	University of Jordan
8	School	Agriculture
9	Department	Nutrition and food technology
10	Level of course	Second
11	Year of study and semester (s)	2019/2020, Fall semester
12	Final Qualification	MSc
13	Other department (s) involved in teaching the course	None
14	Language of Instruction	English
15	Date of production/revision	3/4/2020

16. Course Coordinator:

Office numbers, office hours, phone numbers, and email addresses should be listed.

Prof Reema Tayyem, 11-12 (Sunday, Monday, Thursday), email: r.tayyem@ju.edu.jo

17. Other instructors:

Office numbers, office hours, phone numbers, and email addresses should be listed.

None

18. Course Description:

As stated in the approved study plan.

Drug-Nutrient Interaction (DNI) is a new perspective that has emerged and new data have been generated on the subject matter. Providing both the scientific basis and clinical relevance with appropriate recommendations for many interactions, the topic of drug-nutrient interactions is significant for dietitians and researchers. For dietitians in particular, this course will offer a guide for understanding, identifying or predicting, and ultimately preventing or managing drug-nutrient interactions to optimize patient care.

19. Course aims and outcomes:

A- Aims:

- 1. Identify that DNI are of greatest potential significance to those in poor nutritional state
- 2. Be aware that patients must be assessed individually for the effect of DNI
- 3. Distinguish between how drugs can affect and be affected by food
- 4. Plan a map for meals and drugs and to draft drug schedules.
- 5. Be familiar of DNI in different situations including patient with chronic disease, elderly, fetus, Infant, pregnant woman, and malnourished patient.

B- Intended Learning Outcomes (ILOs): Upon successful completion of this course students will be able to:

A. Knowledge and Understanding: Student is expected to

- A1- Define drug-food interactions
- A2- Understand the biochemical metabolic mechanisms involved in drug-food interactions
- A3- Understand what recommendations to make to prevent undesirable drug interactions

A4- Know about new foods, supplements and ethnic dishes and how they may contribute to food-drug interactions

B. Intellectual Analytical and Cognitive Skills: Student is expected to

B1- Be able to collect information from various sources using libraries, Internet and institute report.

B2- Be able to critically make specific recommendations about the common food-drug interaction

B3- Be able to discuss questions raised by patients on the common food-drug interaction.

C. Subject- Specific Skills: Students is expected to:

C1- Recognize that drugs can exert unfavourable effect on nutritional status

C2- Differentiate between the effect of different types of drugs on the nutritional status and the effectiveness of these drugs.

D. Transferable Key Skills: Students is expected to

D1- Present the topic orally using different audio-visual aids in the area of public speaking.

Торіс	Week	Instructor	Achieved ILOs	Evaluation Methods	Reference
1- INTRODUCTION: - Historial background	1	Reema Tayyem	A, B, C,D	Books and literature related to the topic	1
 2- OVERVIEW OF DRUG– NUTRIENT INTERACTIONS A Perspective on Drug–Nutrient Interactions Drug Disposition and Response Metabolizing Enzymes and P- Glycoprotein Nutrient Disposition and Response 	2-3	Reema Tayyem	A, B, C	Books and literature related to the topic	1, 2
3- INFLUENCE OF NUTRITIONAL STATUS ON DRUG DISPOSITION AND EFFECT - The Impact of Protein-Calorie	4-5	Reema Tayyem	A, B, C,D		1, 2, 3

20. Topic Outline and Schedule:

Malnutrition on Drugs.					
Disposition and Effect					
4- INFLUENCE OF FOOD OR	6-8	Reema	AB		123
NUTRIENTS ON DRUG	00	Tavyem	C.D	Books and	1, 2, 3
DISPOSITION AND EFFECT		, , ,	-,-	literature	
- Drug Absorption with Food				related to the	
- Effects of Specific Foods and Non-				topic	
Nutritive Dietary Components on				1	
Drug					
- Metabolism					
- Interaction Issues					
- Nutrients That May Optimize Drug					
Effects					
- Dietary Supplement Interactions					
With Medication					
- Dietary Supplement Interaction					
with Inutrients					
5- DRUG-NUTRIENT	9-11	Reema	A.B.C.		1.2.3
INTERACTIONS BY LIFE STAGE	/ 11	Tavvem	11, 2, 0	Books and	1, 2, 3
- Drug–Nutrient Interactions in		55		literature	
Infancy and Childhood				related to the	
- Drug–Nutrient Interaction				topic	
Considerations in Pregnancy and					
Lactation					
- Drug–Nutrient Interactions in the					
Elderly					
6- DRUG-NUTRIENT	12-13	Reema	AB		123
INTERACTIONS IN SPECIFIC	12-15	Tayyem	C D	Books and	1, 2, 5
CONDITIONS		iuyyem	0,0	literature	
- Drug–Nutrient Interactions in				related to the	
Patients With Cancer				topic	
- Drug–Nutrient Interactions in					
Transplantation					
- Drug–Nutrient Interactions and					
Immune Function					
- Drug–Nutrient Interactions in					
Patients With Chronic Infections					
- Antimicrobial–Nutrient					
- Drug-Nutrient Interactions in					
Patients Receiving Enteral					
Nutrition					
7- PROJECTS PRESENTATIONS	14	Reema	А, В,		
BY THE STUDENTS		Tayyem	C,D	Books and	
				literature	
				related to the	
				topic	

21. Teaching Methods and Assignments:

Development of ILOs is promoted through the following teaching and learning methods:

Different methods of instructions were adopted as brain storming, group discussion, case study and visiting pharmacies. Additionally, different aids were used to facilitate and illustrate teaching such as watching videos and self-reading handouts.

22. Evaluation Methods and Course Requirements:

Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:

-	Med-exam	30%
-	Project and assignments	20%
-	Final Exam	50%

23. Course Policies:

A- Attendance policies: As declared by The University of Jordan Laws and Regulations.

B- Absences from exams and handing in assignments on time: As declared by The University of Jordan Laws and Regulations.

C- Health and safety procedures: None

D- **Honesty policy regarding cheating, plagiarism, misbehavior:** As declared by The University of Jordan Laws and Regulations.

E- Grading policy: As shown Evaluation Methods and Course Requirements

F- Available university services that support achievement in the course: Data show projector and class

24. Required equipment: (Facilities, Tools, Labs, Training....)

Data show projector and class.

25. References:

Required book (s), assigned reading and audio-visuals:

1. Joseph I. Boullata, Vincent T. Armenti, Handbook of Drug-Nutrient Interactions. Springer Science & Business Media, 2010

Recommended books, materials, and media:

- 2. *Up-to-date scientific* articles, reviews and meta-analysis will be used.
- 3. Position and practice papers.
- 4. Other resources.

26. Additional information:

None	
Name of Course Coordinator:	Signature: Date:
Head of curriculum committee/Department:	Signature:
Head of Department:	Signature:
Head of curriculum committee/Faculty:	Signature:
Dean:	-Signature: